



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/622,893
Source: IFWO
Date Processed by STIC: 12/23/03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



IFWO

RAW SEQUENCE LISTING

DATE: 12/30/2003

PATENT APPLICATION: US/10/622,893

TIME: 09:13:52

Input Set : N:\Cr4\12232003\J622893.raw

Output Set: N:\CRF4\12302003\J622893.raw

1 <110> APPLICANT: Yuan, Chong-Sheng
 2 Datta, Abhijit
 3 Wang, Yuping
 4 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
 5 DETERMINATION OF GLYCATED PROTEINS
 6 <130> FILE REFERENCE: 466992001300
 7 <140> CURRENT APPLICATION NUMBER: US/10/622,893
 C--> 8 <141> **CURRENT FILING DATE: 2003-07-17**
 9 <160> NUMBER OF SEQ ID NOS: 23
 10 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 12 <210> SEQ ID NO: 1
 13 <211> LENGTH: 12
 14 <212> TYPE: PRT
 15 <213> ORGANISM: Artificial Sequence
 16 <220> FEATURE:
 17 <223> OTHER INFORMATION: peptide
 18 <400> SEQUENCE: 1
 19 Met Gly Gly Ser Gly Asp Asp Asp Asp Leu Ala Leu
 20 1 5 10
 22 <210> SEQ ID NO: 2
 23 <211> LENGTH: 6
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Artificial Sequence
 26 <220> FEATURE:
 27 <223> OTHER INFORMATION: FAD cofactor-binding consensus sequence
 28 <220> FEATURE:
 29 <221> NAME/KEY: VARIANT
 30 <222> LOCATION: 2, 4, 5
 31 <223> OTHER INFORMATION: Xaa = Any Amino Acid
 32 <400> SEQUENCE: 2
 W--> 33 Gly Xaa Gly Xaa Xaa Gly
 34 1 5
 36 <210> SEQ ID NO: 3
 37 <211> LENGTH: 437
 38 <212> TYPE: PRT
 39 <213> ORGANISM: Artificial Sequence
 40 <220> FEATURE:
 41 <223> OTHER INFORMATION: peptide
 42 <400> SEQUENCE: 3
 43 Ala Val Thr Lys Ser Ser Ser Leu Leu Ile Val Gly Ala Gly Thr Trp
 44 1 5 10 15
 45 Gly Thr Ser Thr Ala Leu His Leu Ala Arg Arg Gly Tyr Thr Asn Val
 46 20 25 30

Does Not Comply
Corrected Diskette Needed

- Invalid Response. Note (PS. 1, 3, 4, 5)
a valid response for <2137.

- Invalid Response, Not
a valid response
for <2137

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/622,893

DATE: 12/30/2003

TIME: 09:13:52

Input Set : N:\Crff4\12232003\J622893.raw

Output Set: N:\CRF4\12302003\J622893.raw

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47   Thr Val Leu Asp Pro Tyr Pro Val Pro Ser Ala Ile Ser Ala Gly Asn
48           35                      40                      45
49   Asp Val Asn Lys Val Ile Ser Ser Gly Gln Tyr Ser Asn Asn Lys Asp
50           50                      55                      60
51   Glu Ile Glu Val Asn Glu Ile Leu Ala Glu Glu Ala Phe Asn Gly Trp
52           65                      70                      75                      80
53   Lys Asn Asp Pro Leu Phe Lys Pro Tyr Tyr His Asp Thr Gly Leu Leu
54           85                      90                      95
55   Met Ser Ala Cys Ser Gln Glu Gly Leu Asp Arg Leu Gly Val Arg Val
56           100                     105                     110
57   Arg Pro Gly Glu Asp Pro Asn Leu Val Glu Leu Thr Arg Pro Glu Gln
58           115                     120                     125
59   Phe Arg Lys Leu Ala Pro Glu Gly Val Leu Gln Gly Asp Phe Pro Gly
60           130                     135                     140
61   Trp Lys Gly Tyr Phe Ala Arg Ser Gly Ala Gly Trp Ala His Ala Arg
62           145                     150                     155                     160
63   Asn Ala Leu Val Ala Ala Ala Arg Glu Ala Gln Arg Met Gly Val Lys
64           165                     170                     175
65   Phe Val Thr Gly Thr Pro Gln Gly Arg Val Val Thr Leu Ile Phe Glu
66           180                     185                     190
67   Asn Asn Asp Val Lys Gly Ala Val Thr Gly Asp Gly Lys Ile Trp Arg
68           195                     200                     205
69   Ala Glu Arg Thr Phe Leu Cys Ala Gly Ala Ser Ala Gly Gln Phe Leu
70           210                     215                     220
71   Asp Phe Lys Asn Gln Leu Arg Pro Thr Ala Trp Thr Leu Val His Ile
72           225                     230                     235                     240
73   Ala Leu Lys Pro Glu Glu Arg Ala Leu Tyr Lys Asn Ile Pro Val Ile
74           245                     250                     255
75   Phe Asn Ile Glu Arg Gly Phe Phe Phe Glu Pro Asp Glu Glu Arg Gly
76           260                     265                     270
77   Glu Ile Lys Ile Cys Asp Glu His Pro Gly Tyr Thr Asn Met Val Gln
78           275                     280                     285
79   Ser Ala Asp Gly Thr Met Met Ser Ile Pro Phe Glu Lys Thr Gln Ile
80           290                     295                     300
81   Pro Lys Glu Ala Glu Thr Arg Val Arg Ala Leu Leu Lys Glu Thr Met
82           305                     310                     315                     320
83   Pro Gln Leu Ala Asp Arg Pro Phe Ser Phe Ala Arg Ile Cys Trp Cys
84           325                     330                     335
85   Ala Asp Thr Ala Asn Arg Glu Phe Leu Ile Asp Arg His Pro Gln Tyr
86           340                     345                     350
87   His Ser Leu Val Leu Gly Cys Gly Ala Ser Gly Arg Gly Phe Lys Tyr
88           355                     360                     365
89   Leu Pro Ser Ile Gly Asn Leu Ile Val Asp Ala Met Glu Gly Lys Val
90           370                     375                     380
91   Pro Gln Lys Ile His Glu Leu Ile Lys Trp Asn Pro Asp Ile Ala Ala
92           385                     390                     395                     400
93   Asn Arg Asn Trp Arg Asp Thr Leu Gly Arg Phe Gly Gly Pro Asn Arg
94           405                     410                     415
95   Val Met Asp Phe His Asp Val Lys Glu Trp Thr Asn Val Gln Tyr Arg

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TIME: 09:13:52

Output Set: N:\CRF4\12302003\J622893.raw

```

96          420          425          430
97      Asp Ile Ser Lys Leu
98          435
100 <210> SEQ ID NO: 4
101 <211> LENGTH: 17
102 <212> TYPE: PRT
103 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: peptide
106 <400> SEQUENCE: 4
107      Lys Gly Glu Leu Glu Gly Leu Pro Ile Pro Asn Pro Leu Leu Arg Thr
108          1          5          10          15
109      Gly
111 <210> SEQ ID NO: 5
112 <211> LENGTH: 472
113 <212> TYPE: PRT
114 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: chimeric protein
117 <400> SEQUENCE: 5
118      Met Gly Gly Ser Gly Asp Asp Asp Asp Leu Ala Leu Ala Val Thr Lys
119          1          5          10          15
120      Ser Ser Ser Leu Leu Ile Val Gly Ala Gly Thr Trp Gly Thr Ser Thr
121          20          25          30
122      Ala Leu His Leu Ala Arg Arg Gly Tyr Thr Asn Val Thr Val Leu Asp
123          35          40          45
124      Pro Tyr Pro Val Pro Ser Ala Ile Ser Ala Gly Asn Asp Val Asn Lys
125          50          55          60
126      Val Ile Ser Ser Gly Gln Tyr Ser Asn Asn Lys Asp Glu Ile Glu Val
127          65          70          75          80
128      Asn Glu Ile Leu Ala Glu Glu Ala Phe Asn Gly Trp Lys Asn Asp Pro
129          85          90          95
130      Leu Phe Lys Pro Tyr Tyr His Asp Thr Gly Leu Leu Met Ser Ala Cys
131          100          105          110
132      Ser Gln Glu Gly Leu Asp Arg Leu Gly Val Arg Val Arg Pro Gly Glu
133          115          120          125
134      Asp Pro Asn Leu Val Glu Leu Thr Arg Pro Glu Gln Phe Arg Lys Leu
135          130          135          140
136      Ala Pro Glu Gly Val Leu Gln Gly Asp Phe Pro Gly Trp Lys Gly Tyr
137          145          150          155          160
138      Phe Ala Arg Ser Gly Ala Gly Trp Ala His Ala Arg Asn Ala Leu Val
139          165          170          175
140      Ala Ala Ala Arg Glu Ala Gln Arg Met Gly Val Lys Phe Val Thr Gly
141          180          185          190
142      Thr Pro Gln Gly Arg Val Val Thr Leu Ile Phe Glu Asn Asp Val
143          195          200          205
144      Lys Gly Ala Val Thr Gly Asp Gly Lys Ile Trp Arg Ala Glu Arg Thr
145          210          215          220
146      Phe Leu Cys Ala Gly Ala Ser Ala Gly Gln Phe Leu Asp Phe Lys Asn

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Input Set : N:\Cr4\12232003\J622893.raw

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147	225	230	235	240
148	Gln Leu Arg Pro Thr Ala Trp Thr Leu Val His Ile Ala Leu Lys Pro			
149		245	250	255
150	Glu Glu Arg Ala Leu Tyr Lys Asn Ile Pro Val Ile Phe Asn Ile Glu			
151		260	265	270
152	Arg Gly Phe Phe Phe Glu Pro Asp Glu Glu Arg Gly Glu Ile Lys Ile			
153		275	280	285
154	Cys Asp Glu His Pro Gly Tyr Thr Asn Met Val Gln Ser Ala Asp Gly			
155		290	295	300
156	Thr Met Met Ser Ile Pro Phe Glu Lys Thr Gln Ile Pro Lys Glu Ala			
157		305	310	315
158	Glu Thr Arg Val Arg Ala Leu Leu Lys Glu Thr Met Pro Gln Leu Ala			
159		325	330	335
160	Asp Arg Pro Phe Ser Phe Ala Arg Ile Cys Trp Cys Ala Asp Thr Ala			
161		340	345	350
162	Asn Arg Glu Phe Leu Ile Asp Arg His Pro Gln Tyr His Ser Leu Val			
163		355	360	365
164	Leu Gly Cys Gly Ala Ser Gly Arg Gly Phe Lys Tyr Leu Pro Ser Ile			
165		370	375	380
166	Gly Asn Leu Ile Val Asp Ala Met Glu Gly Lys Val Pro Gln Lys Ile			
167		385	390	395
168	His Glu Leu Ile Lys Trp Asn Pro Asp Ile Ala Ala Asn Arg Asn Trp			
169		405	410	415
170	Arg Asp Thr Leu Gly Arg Phe Gly Gly Pro Asn Arg Val Met Asp Phe			
171		420	425	430
172	His Asp Val Lys Glu Trp Thr Asn Val Gln Tyr Arg Asp Ile Ser Lys			
173		435	440	445
174	Leu Lys Gly Glu Leu Glu Gly Leu Pro Ile Pro Asn Pro Leu Leu Arg			
175		450	455	460
176	Thr Gly His His His His His His			
177		465	470	

179 <210> SEQ ID NO: 6

180 <211> LENGTH: 1419

181 <212> TYPE: DNA

182 <213> ORGANISM: Artificial Sequence

183 <220> FEATURE:

184 <223> OTHER INFORMATION: nuc sequence encoding a chimeric protein

185 <400> SEQUENCE: 6

186 atgggaggtt cgggtgacga tgatgacctg gctctcgccg tcactaagtc atcatctctc 60

187 ctgacgtgtg gtgccgggac ttggggcacc tcaacggctc tgcacctcgc gcgccgcgga 120

188 tataccaacg ttaccgtgct ggaccctat cctgtcccta gcgccatctc cgccggaaac 180

189 gacgtgaaca aagtcattag cagtggccaa tattcgaata acaaagacga aatcgaagtg 240

190 aatgagatct tggcggaaga ggcgtttaac ggttggaaga acgaccgct tttcaaaccg 300

191 tattatcatg atacgggcct gctgatgtct gcttgctcgc aggaggcct ggatcgctg 360

192 ggcgtccggg tacgtccggg cgaggatcct aatctggttg aacttaccgc cccggagcaa 420

193 tttcgtaaac tggccccgga aggcgtgttg caaggtgatt ttccgggttg gaaagggtag 480

194 tttgcgcgtt ccggcgctgg ctgggcacat gcaaggaatg ccttagtggc agcagcacgc 540

195 gaagcacagc gcatgggtgt aaaatttgtt actggcacc cgcagggtcg tgtagtcacg 600

196 ttaatctttg aaaataacga tgtaaaaggt gccgttacgg gcgatggcaa aatttgga 660

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Input Set : N:\CrF4\12232003\J622893.raw

Output Set: N:\CRF4\12302003\J622893.raw

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197 gcggaacgta cattcctgtg tgctggggct agcgcgggct agttcctaga tttcaagaat 720
198 caacttcgac caaccgcttg gaccctggta cacattgcgt taaaaccgga agaacgtgcg 780
199 ttgtacaaaa atataccggt tatctttaac atcgaacggg ggtttttctt tgaacccgat 840
200 gaggagcgcg gtgagattaa aatatgcat gaacaccgag gctacacaaa tatggtccag 900
201 agtgcagacg gcacgatgat gagcattccg ttcgaaaaaa cccagattcc aaaagaagcc 960
202 gaaacgcgcg ttcgggccct gctgaaagag acaatgcccc agctggcaga ccgtccattc 1020
203 agcttcgcac gcatttgctg gtgtgccgat accgcgaatc gcgaattcct gatagatcga 1080
204 catccgcagt accacagtct tgtgttgggc tgtggtgcga gcggaagagg gtttaaatat 1140
205 ctgccttcta ttgggaatct cattgttgac gcgatggaag gtaaagtgcc gcaaaaaatt 1200
206 cacgaattaa tcaagtggaa cccggacatt gcggcgaacc gtaactggcg tgatactctg 1260
207 gggcgttttg gcggtccaaa tcgtgtgatg gattttcatg atgtgaagga atggaccaat 1320
208 gttcagtatc gtgatatttc caagctgaaa ggagagttgg aaggtaagcc aatccctaac 1380
209 ccgttactgc gcacaggcca tcaccatcat catcattaa 1419

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211 <210> SEQ ID NO: 7

212 <211> LENGTH: 39

213 <212> TYPE: PRT

214 <213> ORGANISM: Artificial Sequence

215 <220> FEATURE:

216 <223> OTHER INFORMATION: peptide

217 <220> FEATURE:

218 <221> NAME/KEY: VARIANT

219 <222> LOCATION: 12

220 <223> OTHER INFORMATION: Xaa = C or T

221 <400> SEQUENCE: 7

W--> 222 Ala Pro Ser Ile Leu Ser Thr Glu Ser Ser Ile Xaa Val Ile Gly Ala

223 1 5 10 15

224 Gly Thr Trp Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly

225 20 25 30

226 Gly Gly Gly Gly Gly Gly Gly

227 35

229 <210> SEQ ID NO: 8

230 <211> LENGTH: 39

231 <212> TYPE: PRT

232 <213> ORGANISM: Artificial Sequence

233 <220> FEATURE:

234 <223> OTHER INFORMATION: peptide

235 <400> SEQUENCE: 8

236 Ala Pro Ser Ile Leu Ser Thr Glu Ser Ser Ile Ile Val Ile Gly Ala

237 1 5 10 15

238 Gly Thr Trp Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly

239 20 25 30

240 Gly Gly Gly Gly Gly Gly Gly

241 35

243 <210> SEQ ID NO: 9

244 <211> LENGTH: 39

245 <212> TYPE: PRT

246 <213> ORGANISM: Artificial Sequence

247 <220> FEATURE:

248 <223> OTHER INFORMATION: peptide

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 12/30/2003

PATENT APPLICATION: US/10/622,893

TIME: 09:13:53

Input Set : N:\Crf4\12232003\J622893.raw

Output Set: N:\CRF4\12302003\J622893.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Xaa Pos. 2,4,5 ✓

Seq#:7; Xaa Pos. 12 ✓

VERIFICATION SUMMARY

PATENT APPLICATION: **US/10/622,893**

DATE: 12/30/2003

TIME: 09:13:53

Input Set : **N:\Crf4\12232003\J622893.raw**

Output Set: **N:\CRF4\12302003\J622893.raw**

L:8 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:33 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0

L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0